

AMENDMENT

In the Abstract

Please replace the Abstract with the following:

011 A single structure to accomplish the suspension of a submersible pump and all associated loads, the conveyance of the pumped fluid from the pump to the surface, and the conveyance of electrical power from the surface to the submersible pump is used to produce a well, such as an oil and gas well. The system comprises three individual elements that are assembled just before installation into the casing and are immediately disassembled when removed from the casing: a mechanical suspension means to bear the mechanical loads, a flexible tubular conduit to convey the fluid from the pump to the surface, and an electrical cable to convey electrical power from the surface to the pump. A method is used to quickly and economically assemble and disassemble these elements as they are installed or removed from the casing.

In the Drawings:

The sucker rod features were cancelled from the claims. Accordingly, the originally submitted drawings show every feature of the invention specified in the claims. No new drawings are necessary.

In the Specification

Please amend the Specification as follows:

Please replace the paragraph beginning at page 1, line 14, with the following rewritten:

012 The invention of the electrically actuated submersible pump by Armais Arutunoff in 1933 started an era where electrical power replaced mechanical force as the method used to transmit the necessary power to downhole pumps for the extraction of various materials. Since the

Arutunoff invention, methods have been improved to take advantage of the unique characteristics of the pump and power source. The most significant improvement that occurred due to the introduction of downhole electrical submersible pumps was the dramatic reduction in the mass and size of the elements used to transmit the power and to react the resulting forced. In these more modern systems, steel rods were replaced with much lighter electrical cable and heavy production tubing once required to react mechanical actuation was replaced with much lighter production tubing.

Please replace the paragraph beginning at page 6, line 3, with the following rewritten paragraph:

The mechanical suspension means comprises a continuous length of flexible cable, that can be made of metallic or non-metallic materials, formed into a long cylinder or rope and spooled unto a round reel that allow the cable to be played off the reel into the well continuously. The mechanical suspension means is the primary load bearing member and the other members are attached to it and loads are transferred from the other members to the suspension cable either continuously or at periodic intervals.

Please replace the paragraph beginning at page 6, line 21, with the following rewritten paragraph:

The disclosed intervention has three major advantages over the prior art. First, all elements are available in bulk reels, or readily available, eliminating the need to produce a custom cable. Second, as the elements are installed, they are attached together, accomplishing the transfer of weight from the electrical cable and the production tubing to the mechanical suspension means. Because the elements are not rigidly attached, they can stretch at different rates, without affecting each other significantly. This accomplishes the transfer of mechanical loads from the electrical cable and the production tubing to the mechanical suspension means

94 while simultaneously eliminating the tendency of CSPS cable to fail mechanically under load. Third, all elements are inherently flexible, and can be separated when removed from the well. When combined at the wellhead, the resulting suspension system can be lowered and removed continuously, and when out of the well the individual elements of the suspension system can be automatically stored on separate reels or racks. Also, because all elements are modular and commonly used in wells, they can be installed and removed easily, with the minimum of specialized equipment to facilitate repairs to the submersible pump.

Please replace the paragraph beginning at page 7, line 23, with the following rewritten paragraph:

95 To attach periodically, conventional clamps, similar to those clamps used to attach electrical cable to production tubing in a conventional installation are used. These clamps can be made from a variety of materials including plastic, metal or rubber. The clamps wrap around the three elements, binding them together at a single point. A one piece clamp, consisting of a metal band tightened by a gear driven clamp that is lined with rubber is the preferred method. The clamps are typically installed at 30-foot intervals. An alternate method is to use an arch type banding machine for fully automated, or semi-automated banding of the three elements. An example of an applicable machine is model ST-700 from Quality Packaging Systems located in Brooklyn New York, USA. Air operated banding machines, such as the one specified, are well known in the art, and commonly used to automatically band electrical cable to production tubing in conventional submersible pump installations. To operate the automatic bander, the operator stops the downward motion of the string, and activates the banding machine using a foot operated switch. The banding machine then automatically applies the band, tightens it, and cuts off the excess material.
